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# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 29, 2016

Richard S. Parkins, General Manager  
Fossil Rock Resources, LLC  
225 North 5<sup>th</sup> Street, Suite 900  
Grand Junction, Colorado 81501

Subject: 2015 Annual Report Review Completion, Fossil Rock Mine, C/015/0009, Task ID #5077

Dear Mr. Parkins:

The Division staff has completed the review of the 2015 Annual Report. Enclosed is a copy of the review with each reviewer's comments.

Thank you for your diligence in completing the Annual Report. If you have any questions, please call me at (801) 538-5325.

Sincerely,

Daron R. Haddock  
Coal Program Manager

DRH/sqs  
Enclosure  
O:\015009.FR\WG5077 ANNUAL REPORT\ReviewCompletionLetter.doc



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# Annual Report

This Annual Report shows information the Division has for your mine. Submit the completed document and any additional information identified in the Appendices to the Division by the date specified in the cover letter. During a complete inspection an inspector will check and verify the information.

## GENERAL INFORMATION

Company Name Fossil Rock Resources, LLC

Mine Name

Fossil Rock

Permit Number C/015/0009

Permit expiration Date

2020-02-21

Operator Name Fossil Rock Resources/Canyon Fuel Company, LLC

Phone Number

+1 (435) 286-4880

Mailing Address 597 South SR24

Email

vmiller@bowieresources.com

City

State

Utah

Zip Code

84654

## DOGM File Location or Annual Report Location

Excess Spoil Piles

☐ Required☒ Not Required

Refuse Piles

☒ Required☐ Not Required

Impoundments

☒ Required☐ Not Required

Other:

3rd & 4th Quarter Inspections submitted to DOGM on January 4, 2016.  
Mine purchased by Fossil Rock from PacifiCorp in June 2015. See note.3rd & 4th Quarter Inspections submitted to DOGM on January 4, 2016.  
Mine purchased by Fossil Rock from PacifiCorp in June 2015. See note.

## OPERATOR COMMENTS

1st and 2nd Quarter Inspections are assumed to be on file with DOGM having been submitted by PacifiCorp.

## REVIEWER COMMENTS

☐

Met Requirements

☒

Did Not meet Requirements

The Fossil Rock mine was transferred from Trail Mountain to Fossil Rock Resources in 10/8/15. The Permittee submitted an application to add the old Cottonwood/Wilberg waste rock site to the Fossil Rock Mine (task #4790) and was approved on 5-20-15 by the Division. The waste rock pile inspections and PE certification are required for the 2015 Annual Report. The current owner of the Mine, Canyon Fuel Company, completed the third and fourth quarter refuse and pond inspections. The first pond and refuse inspection was completed by PacificCorp on 3/12/15. The total site storage capacity of the site is 784,000 cubic yards (36% of capacity). Trail Mountain ceased operations and will no longer haul material to the site. Vicky Miller, a employee of Canyon Fuel, completed the third and fourth quarter inspections on 9/16/15 and 12/9/15 and found both the pond and refuse pile to be in a stable condition. The waste rock site did not receive any fill and remained at 36% of total capacity. The pond was dry for the September inspection and only had one foot of water

during the December inspection. The Division does not have the second quarter pond and refuse inspection reports on files and the Permittee will submit a copy to the Division for record keeping. (CP)

## COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

### **Title: REMINING WASTE ROCK FACILITY**

**Objective:** Provide an as-built drawing of the work, including soil salvage volumes

**Frequency:** Annually

**Status:** Ongoing

**Reports:** Annual Reports

**Citation:** MRP, R645-301-231.100

Operator Comments

The re-mining project was not started during 2015, therefore this requirement is not fulfilled in the 2015 annual report.

Reviewer Comments ☒ Met Requirements ☐ Did Not Meet Requirements

Inspection reports confirm no activity at the site. PWB reviewed 2/8/2016.

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### **Title: Subsidence Monitoring**

**Objective:** Use aerial photogrammetric survey methods and annual helicopter reconnaissance flights to monitor subsidence

**Frequency:** Annually

**Status:** Ongoing

**Reports:** Annual Reports

**Citation:** MRP V.1, Ch.3, Section 3.4.8.3, pg. 52, Section 3.5.6.2 pg 68

Operator Comments

Mining has not occurred at this site since the mine's temporary cessation in 2001, therefore subsidence monitoring was not necessary in 2015.

Reviewer Comments ☒ Met Requirements ☐ Did Not Meet Requirements

The 2006 Annual report concluded that subsidence monitoring review of Area 24 had reached maximum defamation many years ago and that no future settling was occurring. Monitoring areas relative to the Mine were removed from reporting as of 2010, when subsidence had been demonstrated complete. The 2012 Annual Subsidence Monitoring report and the 2014 Annual Subsidence monitoring report monitored areas 23 and 24 as these two areas achieved 104% and 93% of the predicted maximum amount of settling, based on the National Coal Board predication model (See page 11 of the 2014 Annual Subsidence Monitoring Report). No subsidence

monitoring was required or submitted at this point in time. (CP)

## FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

### **Title: Vegetation Monitoring**

**Objective:** Observe revegetation efforts

**Frequency:** Annually upon revegetation

**Status:** Revegetation efforts have not been initiated

**Reports:** Annual Reports

**Citation:** MRP, R645-301-231.100

### **Title: Roof and Floor Samples**

**Objective:** To determine if toxic or acid forming potential exists

**Frequency:** Annually during mining operations

**Status:** To be initiated if mining resumes

**Reports:** Annual Reports

**Citation:** MRP Vol 1 Chapt 6 Section 6.6.5 pg 6-8

### **Title: Groundwater Monitoring**

**Objective:** Analyze mine working water balance, account for mine inflows, outflows, consumptive uses, and sump storage

**Frequency:** Annually during mining operations

**Status:** To be initiated if mining resumes

**Reports:** Annual Reports

**Citation:** MRP Vol 1 Chapt 6 Section 6.7 pg 6-10

Operator Comments

Reviewer Comments ☐ Met Requirements ☐ Did Not Meet Requirements

## REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

Raptor Survey sent as separate file, no archaeological reports for 2015.

### Reviewer Comments

Raptor survey reviewed and approved. Nice work. Please note locations of new and active Golden Eagle nests. If mining is to resume, protection measures should be reviewed to ensure protection is adequate. LR, 2/10/2016.



# MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Mine Map With Five Year Projected Plan		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Reviewer Comments ☒ Met Requirements ☐ Did Not Meet Requirements

Mining via longwall methods was completed at the Mine in 2001. The Mine was sealed in April 2011. No mine map was submitted or required at the time of the 2015 Annual Report. No waste was placed at the site for the 2015 year and remaining activities did not commence in 2015.